

SEQUENCE LISTING

<110> KONTSEKOVA, EVA

<120> TRUNCATED TAU PROTEINS

<130> SONN:065US

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<141> 2005-01-12

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<151> 2002-07-12

<160> 34

<170> PatentIn version 3.3

<210> 1

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
 1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 20 25 30

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 50 55 60

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu
 85 90 95

<210> 2

<211> 97

<212> PRT

<213> Homo sapiens

<400> 2

Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr
 1 5 10 15

Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly
 20 25 30

Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu
 35 40 45

Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp
 50 55 60

Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His
 65 70 75 80

Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala
 85 90 95

Glu

<210> 3
 <211> 80
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 <213> Homo sapiens

<400> 3

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
 1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 20 25 30

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 50 55 60

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 65 70 75 80

<210> 4
 <211> 88
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 <213> Homo sapiens

<400> 4

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro

1 5 10 15
 Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 20 25 30
 His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 35 40 45
 Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 50 55 60
 Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 65 70 75 80
 Thr Phe Arg Glu Asn Ala Lys Ala
 85

<210> 5
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 5
 Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
 1 5 10 15
 Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 20 25 30
 His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 35 40 45
 Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 50 55 60
 Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 65 70 75 80
 Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr
 85 90

<210> 6
 <211> 93
 <212> PRT
 <213> Homo sapiens

<400> 6

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
 1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 20 25 30

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 50 55 60

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly
 85 90

<210> 7
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 7

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
 1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 20 25 30

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 50 55 60

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile
 85 90 95

<210> 8
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 8

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
 1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 20 25 30

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 50 55 60

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile
 85 90 95

Val Tyr Lys Ser Pro Val
 100

<210> 9
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 9

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
 1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 20 25 30

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 50 55 60

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile
 85 90 95

Val Tyr Lys Ser Pro Val Val Ser Gly

100

105

<210> 10
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 10

Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro
 1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile
 20 25 30

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
 35 40 45

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
 50 55 60

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
 65 70 75 80

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu
 85 90 95

<210> 11
 <211> 265
 <212> PRT
 <213> Homo sapiens

<400> 11

Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala
 1 5 10 15

Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala
 20 25 30

Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys
 35 40 45

Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys
 50 55 60

Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro
 65 70 75 80

Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu
85 90 95

Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser
100 105 110

Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys
115 120 125

Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
130 135 140

Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn
145 150 155 160

Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly
165 170 175

Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val
180 185 190

Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
195 200 205

Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val
210 215 220

Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly
225 230 235 240

Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala
245 250 255

Lys Ala Lys Thr Asp His Gly Ala Glu
260 265

<210> 12
<211> 241
<212> PRT
<213> Homo sapiens

<400> 12

Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala
1 5 10 15

Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro
20 25 30

Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser
 35 40 45

Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser
 50 55 60

Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg
 65 70 75 80

Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala
 85 90 95

Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser
 100 105 110

Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile
 115 120 125

Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys
 130 135 140

Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr
 145 150 155 160

Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly
 165 170 175

Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu
 180 185 190

Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp
 195 200 205

Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His
 210 215 220

Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala
 225 230 235 240

Glu

<210> 13
 <211> 295
 <212> PRT

<213> Homo sapiens

<400> 13

Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala
1 5 10 15

Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala
20 25 30

Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys
35 40 45

Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys
50 55 60

Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro
65 70 75 80

Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu
85 90 95

Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser
100 105 110

Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys
115 120 125

Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
130 135 140

Gly Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn
145 150 155 160

Val Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly
165 170 175

Gly Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val
180 185 190

Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
195 200 205

Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val
210 215 220

Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly

225 230 235 240
 Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala
 245 250 255
 Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val
 260 265 270
 Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr
 275 280 285
 Gly Ser Ile Asp Met Val Asp
 290 295

 <210> 14
 <211> 271
 <212> PRT
 <213> Homo sapiens

 <400> 14
 Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala
 1 5 10 15
 Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro
 20 25 30
 Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser
 35 40 45
 Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser
 50 55 60
 Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg
 65 70 75 80
 Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala
 85 90 95
 Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser
 100 105 110
 Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Ile
 115 120 125
 Asn Lys Lys Leu Asp Leu Ser Asn Val Gln Ser Lys Cys Gly Ser Lys
 130 135 140

Asp Asn Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr
 145 150 155 160

Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly
 165 170 175

Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu
 180 185 190

Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp
 195 200 205

Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His
 210 215 220

Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala
 225 230 235 240

Glu Ile Val Tyr Lys Ser Pro Val Val Ser Gly Asp Thr Ser Pro Arg
 245 250 255

His Leu Ser Asn Val Ser Ser Thr Gly Ser Ile Asp Met Val Asp
 260 265 270

<210> 15
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 15

Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala
 1 5 10 15

Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro
 20 25 30

Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser
 35 40 45

Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser
 50 55 60

Leu Pro Thr Pro Pro Thr Arg Glu Pro Lys Lys Val Ala Val Val Arg
 65 70 75 80

Thr Pro Pro Lys Ser Pro Ser Ser Ala Lys Ser Arg Leu Gln Thr Ala

85

90

95

Pro Val Pro Met Pro Asp Leu Lys Asn Val Lys Ser Lys Ile Gly Ser
100 105 110

Thr Glu Asn Leu Lys His Gln Pro Gly Gly Gly Lys Val Gln Ile Val
115 120 125

Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
130 135 140

Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser
145 150 155 160

Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu
165 170 175

Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr
180 185 190

His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly
195 200 205

Ala Glu
210

<210> 16
<211> 234
<212> PRT
<213> Homo sapiens

<400> 16

Met Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala
1 5 10 15

Lys Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala
20 25 30

Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys
35 40 45

Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys
50 55 60

Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro
65 70 75 80

Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu
85 90 95

Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser
100 105 110

Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys
115 120 125

Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
130 135 140

Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys
145 150 155 160

Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly
165 170 175

Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg
180 185 190

Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly
195 200 205

Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
210 215 220

Ala Lys Ala Lys Thr Asp His Gly Ala Glu
225 230

<210> 17
<211> 240
<212> PRT
<213> Homo sapiens

<400> 17

Ile Ala Thr Pro Arg Gly Ala Ala Pro Pro Gly Gln Lys Gly Gln Ala
1 5 10 15

Asn Ala Thr Arg Ile Pro Ala Lys Thr Pro Pro Ala Pro Lys Thr Pro
20 25 30

Pro Ser Ser Gly Glu Pro Pro Lys Ser Gly Asp Arg Ser Gly Tyr Ser
35 40 45

Ser Pro Gly Ser Pro Gly Thr Pro Gly Ser Arg Ser Arg Thr Pro Ser

50		55		60
Leu 65	Pro	Thr	Pro	Pro
			Thr	Arg
			Glu	Pro
			Lys	Lys
			Val	Ala
			Val	Val
			Arg	
				80
Thr	Pro	Pro	Lys	Ser
			85	Pro
			Ser	Ser
			Ala	Lys
			90	Ser
			Arg	Leu
			Gln	Thr
				95
Pro	Val	Pro	Met	Pro
			100	Asp
			Leu	Lys
			105	Asn
			Val	Lys
			Ser	Lys
			Ile	Gly
			110	Ser
Thr	Glu	Asn	Leu	Lys
			115	His
			Gln	Pro
			120	Gly
			Gly	Gly
			Lys	Val
				125
Thr	Glu	Asn	Leu	Lys
			115	His
			Gln	Pro
			120	Gly
			Gly	Gly
			Lys	Val
				125
Tyr	Lys	Pro	Val	Asp
			130	Leu
			Ser	Lys
			135	Val
			Thr	Ser
			Lys	Cys
				140
Gly	Asn	Ile	His	His
			145	Lys
			150	Pro
			Gly	Gly
			Gly	Gly
			Gln	Val
				155
			Glu	Val
			Lys	Ser
				160
Glu	Lys	Leu	Asp	Phe
			165	Lys
			Asp	Arg
			Val	Gln
			170	Ser
			Lys	Ile
			Gly	Ser
				175
Asp	Asn	Ile	Thr	His
			180	Val
			Pro	Gly
			Gly	Gly
			185	Asn
			Lys	Lys
				190
His	Lys	Leu	Thr	Phe
			195	Arg
			Glu	Asn
			200	Ala
			Lys	Ala
			Lys	Thr
				205
Ala	Glu	Ile	Val	Tyr
			210	Lys
			Ser	Pro
			215	Val
			Val	Ser
			Gly	Asp
				220
Arg	His	Leu	Ser	Asn
			225	Val
			Ser	Ser
			230	Thr
			Gly	Ser
			235	Ile
			Asp	Met
			Val	Asp
				240
<210>	18			
<211>	264			
<212>	PRT			
<213>	Homo sapiens			
<400>	18			
Met	Val	Ser	Lys	Ser
			5	Lys
			Asp	Gly
			Thr	Gly
			10	Ser
			Asp	Asp
			Lys	Lys
				15
Lys	Gly	Ala	Asp	Gly
			20	Lys
			Thr	Lys
			25	Ile
			Ala	Thr
			Pro	Arg
			Gly	Ala
				30

Pro Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys
 35 40 45

Thr Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys
 50 55 60

Ser Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro
 65 70 75 80

Gly Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu
 85 90 95

Pro Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser
 100 105 110

Ala Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys
 115 120 125

Asn Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro
 130 135 140

Gly Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys
 145 150 155 160

Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly
 165 170 175

Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg
 180 185 190

Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly
 195 200 205

Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
 210 215 220

Ala Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro
 225 230 235 240

Val Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser
 245 250 255

Thr Gly Ser Ile Asp Met Val Asp
 260

<210> 19
 <211> 373
 <212> PRT
 <213> Homo sapiens

<400> 19

Gln Glu Phe Glu Val Met Glu Asp His Ala Gly Thr Tyr Gly Leu Gly
 1 5 10 15

Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His Gln Asp Gln Glu Gly
 20 25 30

Asp Thr Asp Ala Gly Leu Lys Ala Glu Glu Ala Gly Ile Gly Asp Thr
 35 40 45

Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met
 50 55 60

Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys
 65 70 75 80

Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro
 85 90 95

Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr
 100 105 110

Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser
 115 120 125

Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly
 130 135 140

Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro
 145 150 155 160

Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala
 165 170 175

Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn
 180 185 190

Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly
 195 200 205

Gly Gly Lys Val Gln Ile Ile Asn Lys Lys Leu Asp Leu Ser Asn Val
 210 215 220

Gln Ser Lys Cys Gly Ser Lys Asp Asn Ile Lys His Val Pro Gly Gly
 225 230 235 240

Gly Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr
 245 250 255

Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly
 260 265 270

Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln
 275 280 285

Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly
 290 295 300

Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys
 305 310 315 320

Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val Val
 325 330 335

Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr Gly
 340 345 350

Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp Glu
 355 360 365

Val Ser Ala Ser Leu
 370

<210> 20
 <211> 342
 <212> PRT
 <213> Homo sapiens

<400> 20

Gln Glu Phe Glu Val Met Glu Asp His Ala Gly Thr Tyr Gly Leu Gly
 1 5 10 15

Asp Arg Lys Asp Gln Gly Gly Tyr Thr Met His Gln Asp Gln Glu Gly
 20 25 30

Asp Thr Asp Ala Gly Leu Lys Ala Glu Glu Ala Gly Ile Gly Asp Thr
 35 40 45

Pro Ser Leu Glu Asp Glu Ala Ala Gly His Val Thr Gln Ala Arg Met
 50 55 60

Val Ser Lys Ser Lys Asp Gly Thr Gly Ser Asp Asp Lys Lys Ala Lys
 65 70 75 80

Gly Ala Asp Gly Lys Thr Lys Ile Ala Thr Pro Arg Gly Ala Ala Pro
 85 90 95

Pro Gly Gln Lys Gly Gln Ala Asn Ala Thr Arg Ile Pro Ala Lys Thr
 100 105 110

Pro Pro Ala Pro Lys Thr Pro Pro Ser Ser Gly Glu Pro Pro Lys Ser
 115 120 125

Gly Asp Arg Ser Gly Tyr Ser Ser Pro Gly Ser Pro Gly Thr Pro Gly
 130 135 140

Ser Arg Ser Arg Thr Pro Ser Leu Pro Thr Pro Pro Thr Arg Glu Pro
 145 150 155 160

Lys Lys Val Ala Val Val Arg Thr Pro Pro Lys Ser Pro Ser Ser Ala
 165 170 175

Lys Ser Arg Leu Gln Thr Ala Pro Val Pro Met Pro Asp Leu Lys Asn
 180 185 190

Val Lys Ser Lys Ile Gly Ser Thr Glu Asn Leu Lys His Gln Pro Gly
 195 200 205

Gly Gly Lys Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val
 210 215 220

Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly
 225 230 235 240

Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val
 245 250 255

Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly
 260 265 270

Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala
 275 280 285

Lys Ala Lys Thr Asp His Gly Ala Glu Ile Val Tyr Lys Ser Pro Val

290 295 300

Val Ser Gly Asp Thr Ser Pro Arg His Leu Ser Asn Val Ser Ser Thr
305 310 315 320

Gly Ser Ile Asp Met Val Asp Ser Pro Gln Leu Ala Thr Leu Ala Asp
325 330 335

Glu Val Ser Ala Ser Leu
340

<210> 21
<211> 66
<212> PRT
<213> Homo sapiens

<400> 21

Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser
1 5 10 15

Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu
20 25 30

Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr
35 40 45

His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly
50 55 60

Ala Glu
65

<210> 22
<211> 86
<212> PRT
<213> Homo sapiens

<400> 22

Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser Lys
1 5 10 15

Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln Val
20 25 30

Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser Lys
35 40 45

Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn Lys
 50 55 60

Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala Lys
 65 70 75 80

Thr Asp His Gly Ala Glu
 85

<210> 23
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 23

Ser Lys Val Thr Ser Lys Cys Gly Ser Leu Gly Asn Ile His His Lys
 1 5 10 15

Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys
 20 25 30

Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val
 35 40 45

Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg
 50 55 60

Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu
 65 70 75

<210> 24
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 24

Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly Gln
 1 5 10 15

Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln Ser
 20 25 30

Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly Asn
 35 40 45

Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys Ala
 50 55 60

Lys Thr Asp His Gly Ala Glu
65 70

<210> 25
<211> 79
<212> PRT
<213> Homo sapiens

<400> 25

Ile Lys His Val Pro Gly Gly Gly Lys Cys Gly Ser Leu Gly Asn Ile
1 5 10 15

His His Lys Pro Gly Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu
20 25 30

Asp Phe Lys Asp Arg Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile
35 40 45

Thr His Val Pro Gly Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu
50 55 60

Thr Phe Arg Glu Asn Ala Lys Ala Lys Thr Asp His Gly Ala Glu
65 70 75

<210> 26
<211> 88
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<213> Homo sapiens

<400> 26

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Lys Cys Gly Ser Leu Gly Asn Ile His His Lys Pro Gly Gly Gly
20 25 30

Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg Val Gln
35 40 45

Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly Gly Gly
50 55 60

Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn Ala Lys
65 70 75 80

Ala Lys Thr Asp His Gly Ala Glu
85

<210> 27
 <211> 90
 <212> PRT
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<400> 27

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
 1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Gly Asn Ile His His Lys Pro Gly
 20 25 30

Gly Gly Gln Val Glu Val Lys Ser Glu Lys Leu Asp Phe Lys Asp Arg
 35 40 45

Val Gln Ser Lys Ile Gly Ser Leu Asp Asn Ile Thr His Val Pro Gly
 50 55 60

Gly Gly Asn Lys Lys Ile Glu Thr His Lys Leu Thr Phe Arg Glu Asn
 65 70 75 80

Ala Lys Ala Lys Thr Asp His Gly Ala Glu
 85 90

<210> 28
 <211> 29
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 <213> Homo sapiens

<400> 28

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
 1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser Lys Cys Gly Ser Leu
 20 25

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 <213> Homo sapiens

<400> 29

Ile Lys His Val Pro Gly Gly Gly Ser
 1 5

<210> 30
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<212> PRT
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<400> 30

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu

<210> 31
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<212> PRT
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<400> 31

Ile Lys His Val Pro Gly Gly Gly Ser Val Gln Ile Val Tyr Lys Pro
1 5 10 15

Val Asp Leu Ser Lys Val Thr Ser
20

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<400> 32

Ser Val Gln Ile Val Tyr Lys Pro Val Asp Leu Ser Lys Val Thr Ser
1 5 10 15

<210> 33
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Asp Leu Ser Lys Val Thr Ser
1 5

<210> 34
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<400> 34

Lys Cys Gly Ser Leu
1 5